

CLAIMS

1. An oligonucleotide primer pair suitable for amplifying a polymorphic region of a 5' flanking region of a *CYP3A4* gene, wherein the polymorphic region corresponds to position 816 of SEQ ID NO:1.

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2. The primer pair of claim 1, having sequences selected from the group consisting of SEQ ID NO: 7 and SEQ ID NO:8 and SEQ ID NO:9 and SEQ ID NO:10.

10 3. A sequence determination oligonucleotide for detecting a polymorphic site in a 5' flanking region of a *CYP3A4* gene, said oligonucleotide being complementary to the polymorphic region corresponding to position 461 of SEQ ID NO:1.

15 4. The oligonucleotide of claim 3, comprising a sequence selected from the group consisting of SEQ ID NO:11; SEQ ID NO:12; SEQ ID NO:13; SEQ ID NO:14; SEQ ID NO:15; SEQ ID NO:16; SEQ ID NO:17; and SEQ ID NO:18.

5. A kit comprising at least one oligonucleotide primer pair capable of amplifying the region corresponding to position 461 of SEQ ID NO:1.

20 6. The kit of claim 5, wherein the primer pair comprises sequences selected from the group consisting of SEQ ID NO: 7 and SEQ ID NO:8 and SEQ ID NO:9 and SEQ ID NO:10.

25 7. The kit of claim 5, further comprising a sequence determination oligonucleotide complementary to the polymorphic region corresponding to position 461 of SEQ ID NO:1.

30 8. The kit of claim 7, wherein the oligonucleotide comprises a sequence selected from the group consisting of SEQ ID NO:11; SEQ ID NO:12; SEQ ID NO:13; SEQ ID NO:14; SEQ ID NO:15; SEQ ID NO:16; SEQ ID NO:17; and SEQ ID NO:18.

9. An oligonucleotide primer pair suitable for amplifying a polymorphic region of a 5' flanking region of a *CYP2C9* gene, wherein the polymorphic region corresponds to position 957 of SEQ ID NO:6; position 1049 of SEQ ID NO:6; position 1164 of SEQ ID NO:6; position 1526 of SEQ ID NO:6; position 1661 of SEQ ID NO:6; and position 1662 of SEQ ID NO:6.

10. The primer pair of claim 9, having a sequence selected from the group consisting of SEQ ID NO: 19 and SEQ ID NO:20; SEQ ID NO:21 and SEQ ID NO:22; SEQ ID NO:23 and SEQ ID NO:24; SEQ ID NO:25 and SEQ ID NO:26; SEQ ID NO:27 and SEQ ID NO:28; SEQ ID NO:29 and SEQ ID NO:30; and SEQ ID NO:31 and SEQ ID NO:32.

15. 11. A sequence determination oligonucleotide for detecting a polymorphic site in a 5' flanking region of a *CYP2C9* gene, said oligonucleotide comprising a sequence selected from the group consisting of an oligonucleotide complementary to the polymorphic region corresponding to position 957 of SEQ ID NO:6; an oligonucleotide complementary to the polymorphic region corresponding to position 1049 of SEQ ID NO:6; an oligonucleotide complementary to the polymorphic region corresponding to position 1164 of SEQ ID NO:6; an oligonucleotide complementary to the polymorphic region corresponding to position 1526 of SEQ ID NO:6; an oligonucleotide complementary to the polymorphic region corresponding to position 1661 of SEQ ID NO:6; and an oligonucleotide complementary to the polymorphic region corresponding to position 1662 of SEQ ID NO:6.

20. 25. 12. The oligonucleotide of claim 11, comprising a sequence selected from the group consisting of SEQ ID NO:33; SEQ ID NO:34; SEQ ID NO:35; SEQ ID NO:36; SEQ ID NO:37; SEQ ID NO:38; SEQ ID NO:39; SEQ ID NO:40; SEQ ID NO:41; SEQ ID NO:42; SEQ ID NO:43; SEQ ID NO:44; SEQ ID NO:45; SEQ ID NO:46; SEQ ID NO:47; SEQ ID NO:48; SEQ ID NO:49; SEQ ID NO:50; SEQ ID NO:51; SEQ ID NO:52; SEQ ID NO:53; SEQ ID NO:54; SEQ ID NO:55; SEQ ID NO:56; SEQ ID

NO:57; SEQ ID NO:58; SEQ ID NO:59; SEQ ID NO:60; SEQ ID NO:61; SEQ ID NO:62; SEQ ID NO:63; SEQ ID NO:64; SEQ ID NO:65; SEQ ID NO:66; SEQ ID NO:67; and SEQ ID NO:68..

5 13. A kit comprising at least one oligonucleotide primer pair, wherein the primer pair is capable of amplifying a polymorphic region selected from the group consisting of the polymorphic region corresponding to position 957 of SEQ ID NO:6; the polymorphic region corresponding to position 1049 of SEQ ID NO:6; the polymorphic region corresponding to position 1164 of SEQ ID NO:6; the polymorphic region corresponding to position 1526 of SEQ ID NO:6; the polymorphic region corresponding to position 1661 of SEQ ID NO:6; and the polymorphic region corresponding to position 1662 of SEQ ID NO:6.

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